ADAPTIVE PREFETCH OF I/O DATA BLOCKS

Abstract of the Disclosure

5   In an example embodiment, an adaptive method of prefetching data

blocks from an input/output device comprises predicting the address of each

read operation reading a data block from the input/output device, the

prediction based on the address of the immediately preceding read operation

from the input/output device; tracking, for each read operation, whether each

read operation reads a block data from the same address of the input/output

10   device predicted for the read operation; and prefetching a data block for a

read operation from the input/output device in accordance with the state of a

state machine, the state of the state machine depending upon whether

immediately preceding read operations read a data block from the same

address of the input/output device predicted for the read operations.